



Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854

978.970.5600 PHONE
978.453.1995 FAX

www.TRCSolutions.com

July 19, 2018

Mr. Robert Stein, Chairman
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

**Subject: Docket No. 466, Frost Bridge to Campville 115-kV Project
Decision and Order Condition #4 – Independent Environmental Inspector Report**

Dear Mr. Stein,

Please find enclosed the Biweekly Independent Environmental Inspector Report, Report #42, for the **July 6th** and **July 13th, 2018** inspection events for the construction of the Eversource Frost Bridge to Campville 115-kV Project.

If you have any questions, please contact me at pmartin@trcsolutions.com or (978) 656-3631.

Sincerely,

A handwritten signature in black ink that reads "Paul D. Martin". The signature is written in a cursive, flowing style.

Paul Martin
TRC Environmental Corp.

Enclosure

cc- Kathleen Shanley (email), Eversource
TRC Files
Paul Cyr-TRC

Docket No. 466- Development and Management Plan Inspection

The Connecticut Siting Council (CSC) issued to the Connecticut Light and Power Company (d.b.a. as Eversource Energy [Eversource]) a Certificate of Environmental Compatibility and Public Need (Certificate) for the Frost Bridge to Campville 115-kV Project (Project). For the Project, Eversource is in the process of constructing a new 10.4-mile, primarily overhead electric transmission line between its Frost Bridge Substation in the Town of Watertown and its Campville Substation in the Town of Harwinton, and also is making minor related modifications to both substations and to a 0.4-mile segment of two existing 115-kV lines (the 1191 and 1921 lines) at the Naugatuck River crossing in the towns of Litchfield and Harwinton. These electrical system modifications are located within Eversource's existing right-of-way (ROW) or substation properties in Litchfield County Connecticut. Pursuant to the CSC's approval of the Project, this report presents the results of the bi-weekly inspections of the Project's conformance to the CSC-approved Development & Management (D&M) Plans, performed by the CSC's independent environmental inspector pursuant to Certificate Condition 4.

ROW/SUBSTATIONS

Interim Week Inspection:

Date: 07/06/2018

Inspector: Paul Cyr

Rain Event:

Locations Inspected (by Town, D&M Plan Map Sheet, and Structure Number/Site) :

- Watertown, Map 01, Str01A, Str01B, Str02, Str3080
- Watertown, Maps 02-04, Str04-Str09
- Watertown, Map 09, Str22 and Str23
- Thomaston, Map 22, Str63 and Str64
- Litchfield, Map 26, Str73
- Litchfield, Map 29, Str81
- Litchfield, Map 29, Str83

Work Observed: (by D&M Plan Map Sheet and Structure Number/Site)

No active work observed during today's inspection.

At the time of this inspection disturbed ground areas appeared dry and dusty conditions were observed in various areas inspected. Most areas inspected today have yet to be stabilized or restored. Ground surfaces that were disturbed during project construction, as well as access roads and structure/pull pads that are not constructed of gravel or stabilized with gravel, exhibited varying degrees of prolonged and/or recent soil erosion (see Photos 1-18). In areas where stabilization measures have been successful such as at Str23 (Photos 11-12) and to a lesser degree Str81(Photo 19), no erosion is occurring at this time.

See Photos 1 through 21 for more details

ROW/SUBSTATIONS

Bi-Weekly Week Inspection:

Date: 07/13/2018

Inspector: Paul Cyr

Rain Event:

Locations Inspected (by Town, D&M Plan Map Sheet, and Structure Number/Site):

- Watertown, Maps 02-04, Str03-Str09
- Litchfield, Map 29, Str81
- Litchfield, Map 29, Str83
- Harwinton, Map 38, Str97, Str96, Str95
- Harwinton, Maps 32-35, Str88 through Str96

Work Observed: (by D&M Plan Map Sheet and Structure Number/Site)

Met with Tom Degan (Burns & McDonnell) to perform the weekly site inspection. BlueRoc was observed in the area of Str7 and Str8 continuing site restoration.

Areas BluRoc has hydro seeded are currently being manually watered via truck. Stabilization via seeding has been difficult in part due to dry conditions and soil composition. According to Tom Degan, a project discussion was had pertaining to the use of permanent BMPs in place of re-vegetation if, seeding isn't successful.

In-place E&S controls are in accordance with BMPs and functioning. Temporary E&S controls should be maintained until stabilization is effective.

See comments on Page 6 & Photos 22-34

Areas of Inspection		Observation:	Recommended Action/s:	Corrected Action/s:
Access Roads and Adjacent Roadways	Interim Week	Access roads issues will be addressed as part of final restoration. In areas of visible erosion, E&S controls have been repaired/replaced and maintained.	Continue to monitor until restoration and final stabilization.	
	Bi-Week	Restoration is in progress. Water bars and sediment basins are being cleaned and/or installed where needed. Currently E&S controls are in accordance with BMPs but need some maintenance and cleaning with respect to water bars and basins.	Continue to monitor through initial restoration and final stabilization.	
Vegetative Clearing Limits (Including trees to save or danger trees noted.	Interim Week	N/A	N/A	
	Bi-Week	All clearing is completed.	N/A	

Water Crossings	Interim Week	<p>No significant changes in site conditions since the previous inspection.</p> <p>With the exception of the previously reported removal of timber mat crossings in the Black Rock/Purgatory Junction areas (Str24 through Str46) timber mats crossings in the remaining areas of the ROW are still in place and will be removed as each area is restored and vehicle access to those areas will then be restricted.</p>	<p>Site restoration and stabilization is in progress at this time. Areas will continue to be monitored until deemed closed out by the Project inspectors/Project Managers.</p>	
	Bi-Week	<p>Timber mat crossings were removed and the crossing areas improved/restored at S-A4 (near Str6) and S-A5 (near Str9). See Photo #28.</p>	<p>Site restoration and stabilization is in progress at this time. Areas will continue to be monitored through initial restoration and final stabilization.</p>	

Erosion and Sedimentation Controls	Interim Week	As restoration/stabilization of disturbed ground areas throughout the ROW are being performed, the required E&S control repairs/replacements are being addressed. Areas will continue to be monitored until stabilized.	Continue to monitor and report E&S deficiencies & failures to the project inspector and contractor.	
	Bi-Week	As restoration/stabilization of disturbed ground areas throughout the ROW are being performed, the required E&S control repairs/replacements are being addressed. Areas will continue to be monitored until stabilized.	Continue to monitor and report E&S deficiencies & failures to the project inspector and contractor.	
Inland Wetland & Watercourse encroachment & mitigation	Interim Week	<p>BluRoc has personnel on site performing restoration, stabilization, and E&S control repairs/replacements.</p> <p>Conditions appear to be the same as the previous inspection. No impacts to wetlands or watercourses observed</p>	Continue to monitor the stabilization of disturbed ground surfaces and storm water runoff from upland areas.	

Inland Wetland and Watercourse encroachment and mitigation (Continued from previous page)	Bi-Week	Conditions appear to be the same as the previous inspection. No impacts to wetlands or watercourses observed	Continue to monitor the stabilization of disturbed ground surfaces and storm water runoff from upland areas.	
	Spills and Material Storage	Interim-Week	None observed, none reported.	N/A
Bi-Week		None observed, none reported.	N/A	

Rare, Threatened, and Endangered Species	Interim Week	Although not on the rare, threatened, or endangered species list for this project, an Eastern Box Turtle was observed during this inspection on the access road between Str7 and Str8. Because of the population decline in CT, the box turtle was added to the state's List of Endangered, Threatened, and Special Concern Species List, revised in 1998.	Turtle was photographed (Photos 19 & 20) and then moved several feet off to the side of the access road.	
	Bi-Week	None observed.	N/A	

Additional Documentation Comments:

PAR recently completed structure foundation testing and remediation (prior to Interim Report dated 7/6/18) at certain direct embed structures in Watertown, per the D&M Plan Change submitted to and approved by the CSC on June 21.

Notes:

Areas affected by the D&M Plan Change that are specifically discussed in this Report are Structures 5 through 9. As part of this additional work, remediation was performed at Structure 5 where guy wires were installed. Other work pads and the access road up to Str9 were affected by this additional construction effort.

Open Items from previous inspections:

Closed Items from previous inspections:

Next likely scheduled inspection: 07/20/2018

I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statements made in this document or its attachments may be punishable as a criminal offense in accordance with Section 22a-6 under Section 53a-157 of the Connecticut General Statutes.

Independent Field Inspector: 

Reviewer: 

Photograph Log

Frost Bridge to Campville 115kV Project



Photo 1: 07/06/2018, Watertown: Map 01, Str1A pad and pad slope erosion, minimal vegetation cover. Photo taken facing southeast toward Str1A.



Photo 2: 07/06/2018, Watertown: Map 01, Str1A pad slope erosion, no stabilization. Photo taken facing north CT wetland.

Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	FBC
07/06/2018	Paul Cyr	08 of 25	Watertown to Harwinton	Interim Report #42	

Photograph Log

Frost Bridge to Campville 115kV Project



Photo 3: 07/06/2018, Watertown: Map 04, Str05 slope erosion, fine sediments continue to wash out of exposed, unstabilized/unvegetated soils during rain events. Photo taken facing north.



Photo 4: 07/06/2018, Watertown: Map 03, Str05 slope erosion, no stabilization. Photo taken facing north.

Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	FBC
07/06/2018	Paul Cyr	09 of 25	Watertown to Harwinton	Interim Report #42	

Photograph Log

Frost Bridge to Campville 115kV Project



Photo 5: 07/06/2018, Watertown: Map 03, Str07, fine sediments continue to wash out of exposed, unstabilized/unvegetated soils during rain events. Photo taken facing northeast.



Photo 6: 07/06/2018, Watertown: Map 03, Str07 slope erosion, hydro seed application last fall, no visible growth. Photo taken facing east off of the south slope of pad.

Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	FBC
07/06/2018	Paul Cyr	10 of 25	Watertown to Harwinton	Interim Report #42	

Photograph Log

Frost Bridge to Campville 115kV Project



Photo 7: 07/06/2018, Watertown: Map 04, Str08, fine sediments continue to wash out of exposed, unstabilized/unvegetated soils during rain events. Photo taken facing west.



Photo 8: 07/06/2018, Watertown: Map 04, Str08, slope erosion, no stabilization. Photo taken facing northwest.

Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	FBC
07/06/2018	Paul Cyr	11 of 25	Watertown to Harwinton	Interim Report #42	

Photograph Log

Frost Bridge to Campville 115kV Project



Photo 9: 07/06/2018, Watertown: Map 04, Str09, fine sediments continue to wash out of exposed, unstabilized/unvegetated soils during rain events. Photo taken facing west.



Photo 10: 07/06/2018, Watertown: Map 04, Str09, fine sediments continue to wash out of exposed, unstabilized/unvegetated soils during rain events. Photo taken facing east.

Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	FBC
07/06/2018	Paul Cyr	12 of 25	Watertown to Harwinton	Interim Report #42	

Photograph Log

Frost Bridge to Campville 115kV Project



Photo 11: 07/06/2018, Watertown: Map 09, Str23 pad stabilization. Photo taken facing north.



Photo 12: 07/06/2018, Watertown: Map 09, Str23 pad stabilization. Photo taken facing north.

Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	FBC
07/06/2018	Paul Cyr	13 of 25	Watertown to Harwinton	Interim Report #42	

Photograph Log

Frost Bridge to Campville 115kV Project



Photo 13: 07/06/2018, Thomaston: Map 22, Str63-Str64 timber mats being removed. Photo taken facing north from Walnut Hill Road access.



Photo 14: 07/06/2018, Thomaston: Map 22, Str63-Str64 timber mats being removed. Photo taken facing north from Walnut Hill Road access.

Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	FBC
07/06/2018	Paul Cyr	14 of 25	Watertown to Harwinton	Interim Report #42	

Photograph Log

Frost Bridge to Campville 115kV Project



Photo 15: 07/06/2018, Litchfield: Map 29, Str83, fine sediments continue to wash out of exposed, unstabilized/unvegetated soils during rain events. Photo taken facing west.



Photo 16: 07/06/2018, Litchfield: Map 29, Str83 Pad and upland slope erosion, no stabilization. Photo taken facing north.

Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	FBC
07/06/2018	Paul Cyr	15 of 25	Watertown to Harwinton	Interim Report #42	

**Photograph Log
Frost Bridge to Campville 115kV Project**



Photo 17: 07/06/2018, Litchfield: Map 29, Str83, fine sediments continue to wash out of exposed, unstabilized/unvegetated soils during rain events and access road erosion due to uncontrolled surface water flow from upland areas. Photo taken facing east.



Photo 18: 07/06/2018, Litchfield: Map 29, Str83, fine sediments continue to wash out of exposed, unstabilized/unvegetated soils during rain events. Photo taken facing east.

Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	FBC
07/06/2018	Paul Cyr	16 of 25	Watertown to Harwinton	Interim Report #42	

Photograph Log

Frost Bridge to Campville 115kV Project



Photo 19: 07/06/2018, Litchfield: Map 29, Str81 Pad stabilization. Photo taken facing west from Campville Road.



Photo 20: 07/06/2018, Watertown: Map 04, access road between Str08 and Str09, Eastern Box Turtle relocated off of the access road area.

Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	FBC
07/06/2018	Paul Cyr	17 of 25	Watertown to Harwinton	Interim Report #42	

Photograph Log
Frost Bridge to Campville 115kV Project



Photo 21: 07/06/2018, Watertown: Map 04, access road between Str08 and Str09, Eastern Box Turtle relocated off of the access road area.

Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	FBC
07/06/2018	Paul Cyr	18 of 25	Watertown to Harwinton	Interim Report #42	

Photograph Log

Frost Bridge to Campville 115kV Project



Photo 22: 07/13/2018, Watertown: Map 04, Str05 slope stabilization. Hydro seed applied to the down gradient slope.



Photo 23: 07/13/2018, Watertown: Map 04, Str05 slope stabilization. Hydro seed applied to the upland slope, erosion area shown previously in Photo #3. Photo taken facing south (opposite view of Photo 3).

Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	FBC
07/13/2018	Paul Cyr	19 of 25	Watertown to Harwinton	Biweekly Report #42	

Photograph Log

Frost Bridge to Campville 115kV Project



Photo 24: 07/13/2018, Watertown: Map 04, Str05 slope stabilization. Hydro seed applied to the pad slope, erosion area shown previously in Photo #4. Photo taken facing northwest.



Photo 25: 07/13/2018, Watertown: Map 04, Str08, slope stabilization. Hydro seed applied to the pad slope, erosion area shown previously in Photo #8.

Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	FBC
07/13/2018	Paul Cyr	20 of 25	Watertown to Harwinton	Biweekly Report #42	

**Photograph Log
Frost Bridge to Campville 115kV Project**



Photo 26: 07/13/2018, Watertown: Map 04, Str09, work pad and access hydro seeded. Area previously shown in Photo #9. Photo taken facing west toward S-A5.



Photo 27: 07/13/2018, Watertown: Map 04, Str09, work pad and access hydro seeded. Area previously shown in Photo #10. Photo taken facing east.

Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	FBC
07/13/2018	Paul Cyr	21 of 25	Watertown to Harwinton	Biweekly Report #42	

Photograph Log

Frost Bridge to Campville 115kV Project



Photo 28: 07/13/2018, Watertown: Map 04, Str09 and S-A5, timber mat crossing removed, access road hydro seeded, stream crossing graded and improved. Photo taken facing west toward S-A5 from west end of Str09.



Photo 29: 07/13/2018, Watertown: Map 03, Str07 slope stabilization. Hydro seed applied to the pad slope, erosion area shown previously in Photo #6. Photo taken north off of the top of the work pad.

Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	FBC
07/13/2018	Paul Cyr	22 of 25	Watertown to Harwinton	Biweekly Report #42	

Photograph Log

Frost Bridge to Campville 115kV Project



Photo 30: 07/13/2018, Watertown: Map 03, access road between Str07 and Str08, water bars and sediment basin will be installed to help control surface water flow. Photo taken facing north, from Str7 towards Str8.



Photo 31: 07/13/2018, Litchfield: Map 29, Str83, upland slope facing down to the Str83 work pad, minimal vegetation growth from previous stabilization measures, erosion visible. Area previously shown in Photo 16. Photo taken facing east, down the upland slope.

Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	FBC
07/13/2018	Paul Cyr	23 of 25	Watertown to Harwinton	Biweekly Report #42	

Photograph Log

Frost Bridge to Campville 115kV Project



Photo 32: 07/13/2018, Litchfield: Map 29, Str83, erosion area graded but not stabilized on the down gradient slope (east side of work pad). Photo taken facing east towards W-F4 from the Str8 work pad.



Photo 33: 07/13/2018, Harwinton: Map 32, Str88 eastern slope, visible erosion occurring.

Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	FBC
07/13/2018	Paul Cyr	24 of 25	Watertown to Harwinton	Biweekly Report #42	

Photograph Log
Frost Bridge to Campville 115kV Project



Photo 34: 07/13/2018, Harwinton: Map 32, Str88 work pad, visible erosion occurring on pad and down north slope. Light vegetation growth from previous stabilization measures.

Date:	Photographs Taken By:	Page No.	Town/s	Report/No.	FBC
07/13/2018	Paul Cyr	25 of 25	Watertown to Harwinton	Biweekly Report #42	